

~~10000~~
000006731

ROCKY FLATS
SOLAR POND/PONDCRETE PROJECT

TECHNICAL REVIEW
DENVER, COLORADO

JANUARY 14, 1992

ADMIN RECORD

A-DU04-000344



TECHNICAL DISCUSSIONS AGENDA

Tuesday (Management Overview) January 14, 1992

9:30 a.m.	Overview of Project
10:00 a.m.	Pondsludge Processing 207A & B and Clarifier
12:00 p.m.	Break
1:00 p.m.	Pondsludge 207C Processing
2:00 p.m.	Regulatory Issues
3:00 p.m.	Pondcrete Process Train
4:00 p.m.	Laboratory Requirements

Wednesday (Detailed Discussions) January 15, 1992

8:00 a.m.	Sludge Densification & Water Management Program
9:00 a.m.	Sequencing of Operations
10:00 a.m.	Responsibility Matrix for Pond Processing
11:00 a.m.	Schedule
12:00 p.m.	Break
1:00 p.m.	Open Discussions
3:00 p.m.	Action Items
4:30 p.m.	Adjourn

PROJECT OVERVIEW

WORK SCOPE DEFINITION STATUS

CHARACTERIZATION:

1. PONDSLUDGE WASTE CHARACTERIZATION REPORT COMPLETED ON JANUARY 3, 1992
2. ALL SAMPLES TO BE AT PITTSBURGH LABORATORY BY ~~END OF JANUARY~~ 1992
3. APPROXIMATELY ½ OF THE PONDCRETE SAMPLES HAVE BEEN TAKEN
4. SAMPLING OF SALTCRETE SAMPLES IS CURRENTLY UNDERWAY
5. EVAPORATOR BOTTOMS DO NOT EXIST TO SAMPLE AS OF THIS DATE

TREATABILITY STUDIES

1. NEW TREATABILITY LAB IS NOW AVAILABLE FOR PROJECT USE
2. PONDSLUDGE TREATABILITY STUDIES ARE CURRENTLY UNDERWAY
3. ~~SAMPLING FOR SALTCRETE CURRENTLY WORKING WITHOUT APPROVED TREATABILITY STUDY~~
4. PONDCRETE TREATABILITY STUDIES SHOULD BEGIN BY END OF JANUARY 1992
5. FIRST TECHNICAL MEMO WAS PRODUCED FOR PONDSLUDGE

EQUIPMENT DESIGN, PROCUREMENT, CONSTRUCTION

1. CURRENTLY LOOKING AT PROCESSING PONDCRETE AND SALTCRETE ON 904 PAD
2. CURRENTLY LOOKING AT PROCESSING PONDSLUDGE AND CLARIFIER SLUDGES IN THE 207 POND AREA
3. EQUIPMENT IS TO BE CONSIDERED TEMPORARY
4. NO PROCUREMENT IS UNDERWAY. CURRENTLY HAVE EIGHT SYSTEMS APPROVED TO FINALIZE ENGINEERING ACTIVITIES
5. CURRENTLY SCHEDULED TO AWARD 90 PURCHASE ORDERS
6. PRODUCE 500 DRAWINGS, 200 SPECIFICATIONS

DESIGN CRITERIA FOR EQUIPMENT

ORDER OF PRIORITY

1. PRODUCE A CERTIFIABLE WASTE
2. MINIMIZE WASTE VOLUMES
3. PROCESS PONDSLUDGE BY NOVEMBER 8, 1992
4. MINIMIZE FOOTPRINT OF EQUIPMENT
5. MINIMIZE ONSITE ERECTION LABOR

EQUIPMENT DEFINITION

1. EG&G HAS PROVIDED REGULATORY COMMENTS TO VARIOUS PROCESS SCENARIOS
2. EG&G DESIRE EQUIPMENT FOOTPRINT TO BE MINIMIZED
3. CURRENTLY PLANNING ON PROCESSING 207 C ON 788 PAD. POND 207 A & B ALONGSIDE 207 PONDS. BALANCE OF WASTE FORMS ON 904 PAD
4. EG&G HAS DIRECTED HNUS TO DESIGN PONDSLUDGE PROCESS TRAIN USING LOW WATER DESIGN
5. RECOMMEND THAT EG&G APPROVE TRASH INCLUSION FOR PONDCRETE AND SALTCRETE PROCESSING.
6. HNUS NEEDS TO FINALIZE BFD BY JANUARY 30, 1992 FOR THE PONDSLUDGE PROCESS TRAIN
7. PRIMARY SIZE REDUCTION MACHINE SELECTION MUST BE FINALIZED BY JANUARY 15, 1992

ROCKY FLATS SOLAR POND/PONDCRETE STABILIZATION PROJECT

BROWN & ROOT JOB NO. JR-1198

WASTE INVENTORY ANALYSIS

PROCESS CONFIGURATION

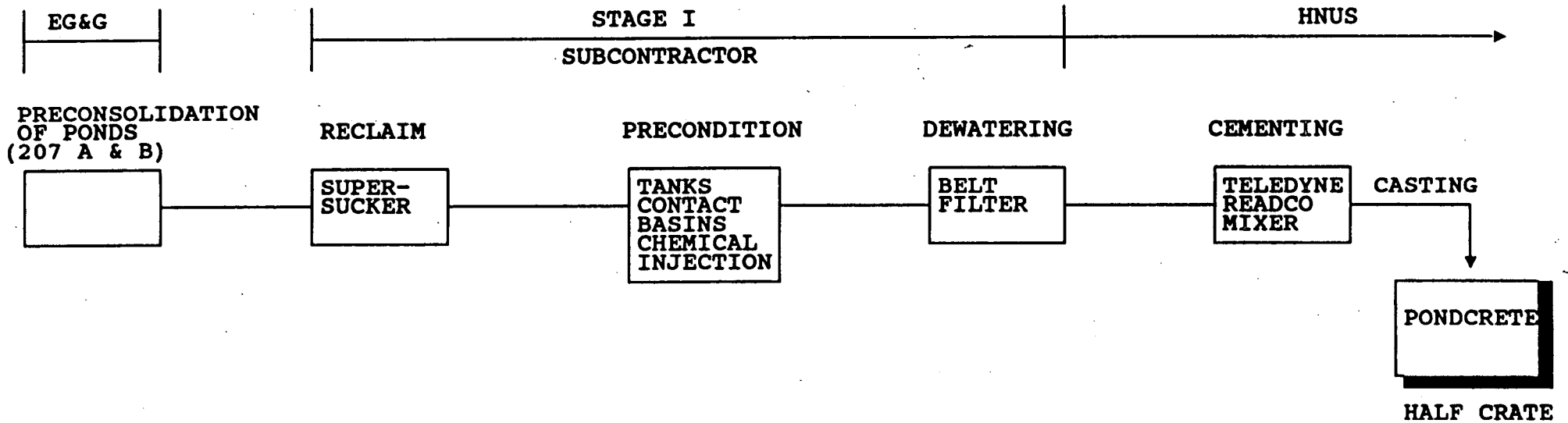
POND'S 207A, 207B-N, 207B-C, 207B-S, AND THE CLARIFIER TANK WILL BE
DEMATERED TO APPROXIMATELY 30% SOLIDS PRIOR TO STABILIZATION.

POND 207C WILL NOT BE DEMATERED PRIOR TO STABILIZATION.

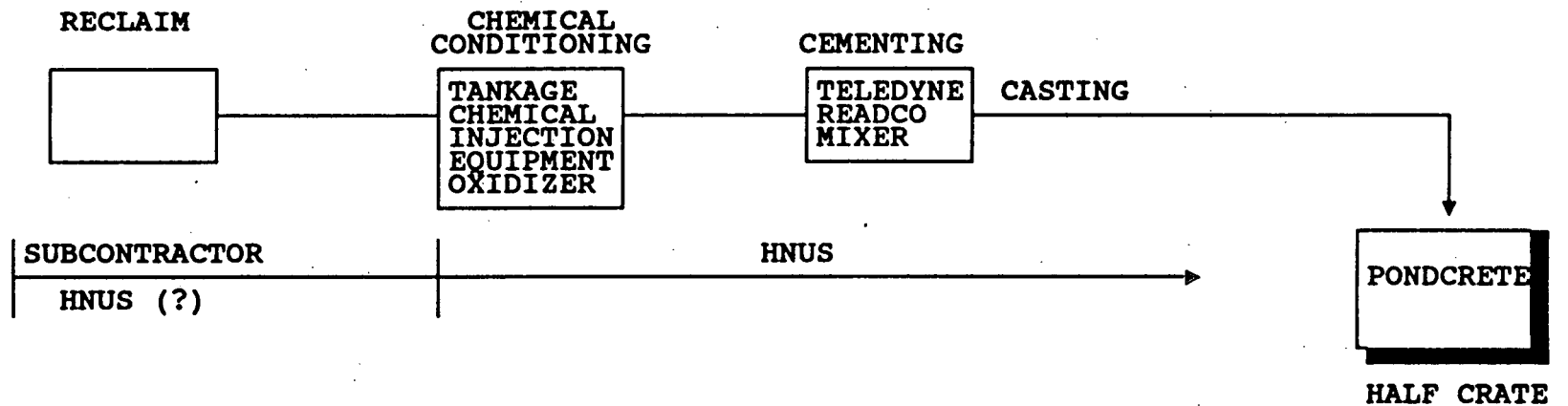
PONDCRETE WILL BE APPROXIMATELY 60% SOLIDS PRIOR TO STABILIZATION. NO
REDUCTION HAS BEEN ALLOWED FOR DENSIFICATION OF EXISTING PONDCRETE
SALTCRETE WILL BE APPROXIMATELY 25% SOLIDS PRIOR TO STABILIZATION. NO
REDUCTION HAS BEEN ALLOWED FOR DENSIFICATION OF EXISTING SALTCRETE
EVAPORATOR BOTTOMS WILL BE 0% SOLIDS PRIOR TO STABILIZATION.

WASTE SOURCE	QUANTITIES OF STABILIZED WASTE PRODUCED	
	EXTERNAL VOLUME OF CONTAINERS :	
	USED FOR STORAGE AT COMPLETION: NUMBER OF HALF CRATES	
OF PROJECT		
POND 207A	94 CU. YD.	45 HALF CRATES
POND 207B-N	1171 CU. YD.	565 HALF CRATES
POND 207B-C	364 CU. YD.	176 HALF CRATES
POND 207B-S	546 CU. YD.	263 HALF CRATES
TOTAL	2175 CU. YD.	1049 HALF CRATES
POND 207C	3688 CU. YD.	1778 HALF CRATES
CLARIFIER	244 CU. YD.	118 HALF CRATES
PONDCRETE	6684 CU. YD.	3223 HALF CRATES
SALTCRETE	4251 CU. YD.	2050 HALF CRATES
TRASH	1543 CU. YD.	744 HALF CRATES
EVAPORATOR	1644 CU. YD.	793 HALF CRATES
NEW SALTCRETE	936 CU. YD.	451 HALF CRATES
REPROC. REJECT	272 CU. YD.	131 HALF CRATES
Q.C. SAMPLES	7 CU. YD.	3 HALF CRATES
GRAND TOTAL	21444 CU. YD.	10339 HALF CRATES
750 PAD PERMITTED VOLUME	14000 CU. YD.	6750 HALF CRATES
904 PAD PERMITTED VOLUME	9950 CU. YD.	4797 HALF CRATES
TOTAL PERMITTED VOLUME	23950 CU. YD.	11548 HALF CRATES
DIFFERENCE	2506 CU. YD. UNDER LIMIT	1208 HALF CRATES UNDER LIMIT

PONDS 207 A & B, CLARIFIER

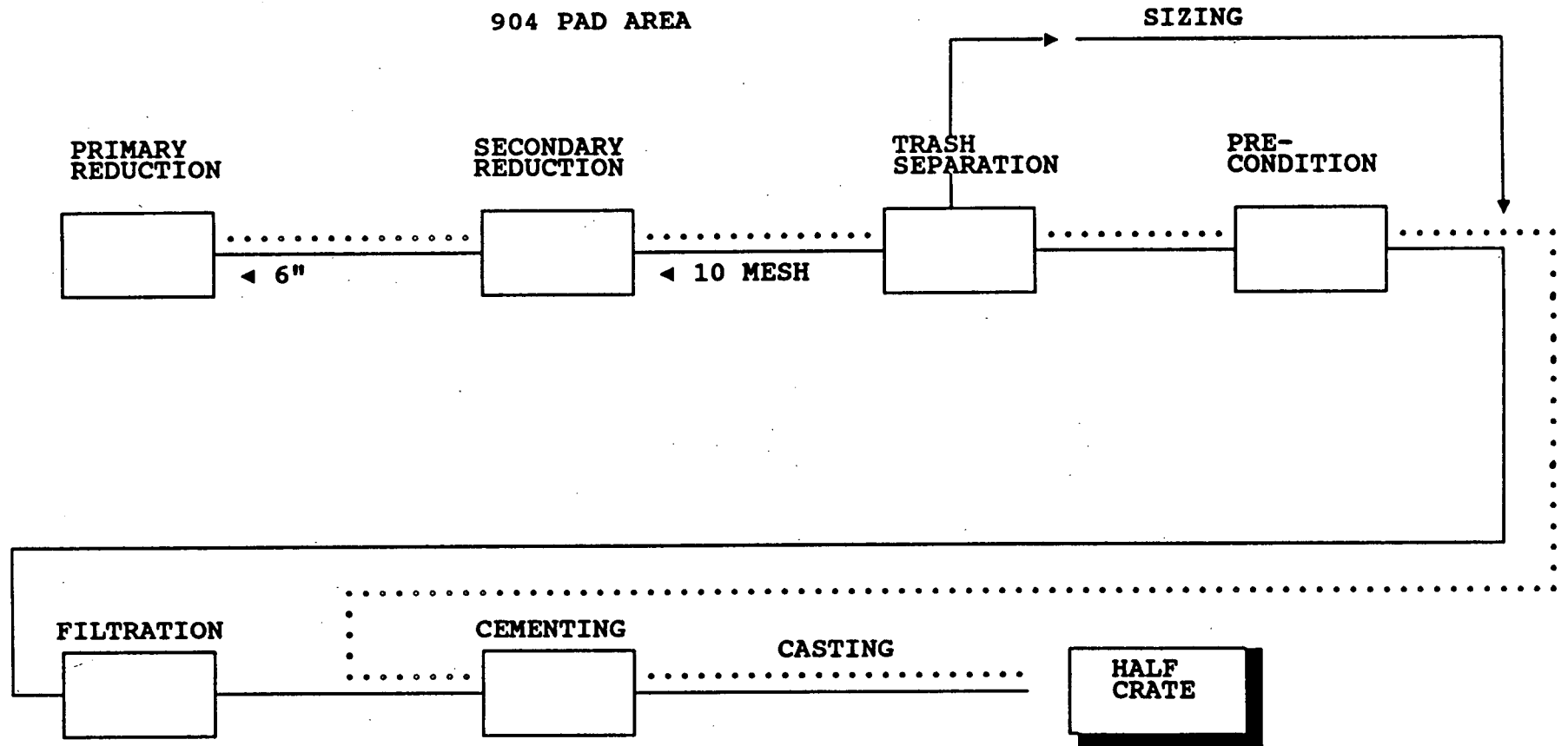


POND 207



PONDCRETE PROCESSING

904 PAD AREA



..... SALTCRETE PROCESSING